

CLIPPEDIMAGE= JP404026346A

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TITLE: RECTIFYING DEVICE IN AC GENERATOR FOR CAR

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INVENTOR-INFORMATION:

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INT-CL (IPC): H02K019/36;H02M007/04

US-CL-CURRENT: 310/52,310/159

ABSTRACT:

PURPOSE: To avoid the local concentration of heat, and to improve cooling efficiency by unevenly arranging the positive side and the negative side diodes fixed to each cooling plate respectively in the radial direction.

CONSTITUTION: The inner and outer circumferential diameters of a positive-side cooling plate 11 are made larger than those of a negative-side cooling plate 12. A negative side diode 17 is mounted at a position opposite to the inner peripheral section of the positive-side cooling plate 1 and a negative side diode 17 at a diametral-side position outer than the outer periphery of the negative-side cooling plate 12. Cooling fins 11b, 12b are formed to each cooling plate 11, 12, and the cooling fin 11b of the positive-side cooling plate 11 far from a cooling-air inflow window 14a projects and is formed on the

cooling window 14a side on the diametral side outer than the outer periphery of the negative-side cooling plate 12. Accordingly, the positions of heat generation are dispersed and the local concentration of heat is avoided while the positive-side cooling fin is cooled directly by cold cooling air not warmed by the negative-side cooling plate, thus improving cooling performance.

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